

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/6/3,736B
Source: IFW/b
Date Processed by STIC: 10/18/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 10/18/2006

PATENT APPLICATION: US/10/613,736B

TIME: 09:15:28

Input Set : A:\C1037.70044US00 (100306).ST25.txt

Output Set: N:\CRF4\10182006\J613736B.raw

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3 <110> APPLICANT: Krieg, Arthur M
5 <120> TITLE OF INVENTION: NUCLEIC ACID COMPOSITIONS FOR STIMULATING IMMUNE RESPONSES
7 <130> FILE REFERENCE: C1037.70044US00
9 <140> CURRENT APPLICATION NUMBER: US 10/613,736B
10 <141> CURRENT FILING DATE: 2003-07-03
12 <150> PRIOR APPLICATION NUMBER: US 60/394,164
13 <151> PRIOR FILING DATE: 2002-07-03
15 <160> NUMBER OF SEQ ID NOS: 26
17 <170> SOFTWARE: PatentIn version 3.3
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 24
21 <212> TYPE: DNA
22 <213> ORGANISM: Artificial sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Synthetic oligonucleotide
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31 <210> SEQ ID NO: 2
32 <211> LENGTH: 24
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial sequence
36 <220> FEATURE:
37 <223> OTHER INFORMATION: Synthetic oligonucleotide
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43 <210> SEQ ID NO: 3
44 <211> LENGTH: 24
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Synthetic oligonucleotide
52 <220> FEATURE:
53 <221> NAME/KEY: misc_feature
54 <222> LOCATION: (1)..(15)
55 <223> OTHER INFORMATION: n is a, c, g, or t
57 <400> SEQUENCE: 3
W--> 58 nnnnnnnnnnn nnnnnnttttt tcga 24
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 9
63 <212> TYPE: DNA
64 <213> ORGANISM: Artificial sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Synthetic oligonucleotide

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75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Synthetic oligonucleotide
82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <222> LOCATION: (20)..(24)
85 <223> OTHER INFORMATION: n is a, c, g, or t
87 <400> SEQUENCE: 5
W--> 88 tcgtcgtttt gtcgtttttt nnnn 24
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 19
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Synthetic oligonucleotide
99 <400> SEQUENCE: 6
100 tcgtcgtttt gtcgttttt 19
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 23
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Synthetic oligonucleotide
111 <400> SEQUENCE: 7
112 tcgtcgtttt gtcgtttttt tcg 23
115 <210> SEQ ID NO: 8
116 <211> LENGTH: 22
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Synthetic oligonucleotide
123 <400> SEQUENCE: 8
124 tcgtcgtttt gtcgtttttt tc 22
127 <210> SEQ ID NO: 9
128 <211> LENGTH: 21
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Synthetic oligonucleotide
135 <400> SEQUENCE: 9
136 tcgtcgtttt gtcgtttttt t 21
139 <210> SEQ ID NO: 10
140 <211> LENGTH: 20
141 <212> TYPE: DNA

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142 <213> ORGANISM: Artificial sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Synthetic oligonucleotide
147 <400> SEQUENCE: 10
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151 <210> SEQ ID NO: 11
152 <211> LENGTH: 23
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Synthetic oligonucleotide
159 <400> SEQUENCE: 11
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163 <210> SEQ ID NO: 12
164 <211> LENGTH: 22
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Synthetic oligonucleotide
171 <400> SEQUENCE: 12
172 gtcgttttgt cgtttttttc ga            22
175 <210> SEQ ID NO: 13
176 <211> LENGTH: 21
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Synthetic oligonucleotide
183 <400> SEQUENCE: 13
184 tcgttttgtc gtttttttcg a              21
187 <210> SEQ ID NO: 14
188 <211> LENGTH: 20
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Synthetic oligonucleotide
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199 <210> SEQ ID NO: 15
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201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Synthetic oligonucleotide
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211 <210> SEQ ID NO: 16
212 <211> LENGTH: 18
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial sequence

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224 <211> LENGTH: 17
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Synthetic oligonucleotide
231 <400> SEQUENCE: 17
232 tttggtcggttt ttttcga 17
235 <210> SEQ ID NO: 18
236 <211> LENGTH: 16
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Synthetic oligonucleotide
243 <400> SEQUENCE: 18
244 ttgtcggtttt tttcga 16
247 <210> SEQ ID NO: 19
248 <211> LENGTH: 15
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Synthetic oligonucleotide
255 <400> SEQUENCE: 19
256 tgtcggttttt ttcga 15
259 <210> SEQ ID NO: 20
260 <211> LENGTH: 14
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Synthetic oligonucleotide
267 <400> SEQUENCE: 20
268 gtcgttttttt tcga 14
271 <210> SEQ ID NO: 21
272 <211> LENGTH: 13
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Synthetic oligonucleotide
279 <400> SEQUENCE: 21
280 tcgtttttttt cga 13
283 <210> SEQ ID NO: 22
284 <211> LENGTH: 12
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial sequence
288 <220> FEATURE:

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289 <223> OTHER INFORMATION: Synthetic oligonucleotide
291 <400> SEQUENCE: 22
292 cgttttttttc ga 12
295 <210> SEQ ID NO: 23
296 <211> LENGTH: 11
297 <212> TYPE: DNA
298 <213> ORGANISM: Artificial sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: Synthetic oligonucleotide
303 <400> SEQUENCE: 23
304 gttttttttcg a 11
307 <210> SEQ ID NO: 24
308 <211> LENGTH: 10
309 <212> TYPE: DNA
310 <213> ORGANISM: Artificial sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: Synthetic oligonucleotide
315 <400> SEQUENCE: 24
316 ttttttttcga 10
319 <210> SEQ ID NO: 25
320 <211> LENGTH: 26
321 <212> TYPE: DNA
322 <213> ORGANISM: Artificial sequence
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Synthetic oligonucleotide
328 <220> FEATURE:
329 <221> NAME/KEY: misc_feature
330 <222> LOCATION: (4)..(23)
331 <223> OTHER INFORMATION: n is a, c, g, or t; and any 0-20 may be absent.
333 <400> SEQUENCE: 25
W--> 334 gggnnnnnnnn nnnnnnnnnn nnnnggg 26
337 <210> SEQ ID NO: 26
338 <211> LENGTH: 49
339 <212> TYPE: DNA
340 <213> ORGANISM: Artificial sequence
342 <220> FEATURE:
343 <223> OTHER INFORMATION: Synthetic oligonucleotide
346 <220> FEATURE:
347 <221> NAME/KEY: misc_feature
348 <222> LOCATION: (4)..(23)
349 <223> OTHER INFORMATION: n is a, c, g, or t; and any 0-20 may be absent.
351 <220> FEATURE:
352 <221> NAME/KEY: misc_feature
353 <222> LOCATION: (27)..(46)
354 <223> OTHER INFORMATION: n is a, c, g, or t; and any 0-20 may be absent.
356 <400> SEQUENCE: 26
W--> 357 gggnnnnnnnn nnnnnnnnnn nnnngggnnnn nnnnnnnnnn nnnnnnggg 49

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/613,736B

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Input Set : A:\C1037.70044US00 (100306).ST25.txt
Output Set: N:\CRF4\10182006\J613736B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. ~~1,2,3,4,5,6,7,8,9,10,11,12,13,14,15~~

Seq#:5; N Pos. ~~20,21,22,23,24~~

Seq#:25; N Pos. ~~4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23~~

Seq#:26; N Pos. ~~4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,27,28~~

Seq#:26; N Pos. ~~29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46~~

VERIFICATION SUMMARY

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Input Set : A:\C1037.70044US00 (100306).ST25.txt

Output Set: N:\CRF4\10182006\J613736B.raw

L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0